PATENT COOPERATION TREATY







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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 02446 PCT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/IB 03/06317	18/11/2003	19/11/2002					
Applicant .							
HANSEN TRANSMISSIONS INTER	RNATIONAL NV						
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant					
This International Search Report consists X It is also accompanied by	of a total of5 sheets. a copy of each prior art document cited in this	report.					
Basis of the report	·						
a. With regard to the language, the i language in which it was filed, unle	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the					
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this					
was carried out on the basis of the	d/or amino acid sequence disclosed in the intended sequence listing: nal application in written form.	ernational application, the international search					
filed together with the international application in computer readable form.							
furnished subsequently to	furnished subsequently to this Authority in written form.						
} <u></u>	furnished subsequently to this Authority in computer readble form.						
the statement that the sub international application as	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been					
2. Certain claims were foun	nd unsearchable (See Box I).						
3. Unity of invention is lack	ing (see Box II).						
4. With regard to the title,							
X the text is approved as sub	omitted by the applicant.						
the text has been establish	ned by this Authority to read as follows:						
•							
5. With regard to the abstract,	amitted by the applicant						
the text is approved as sub the text has been establish within one month from the	named by the applicant. led, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.					
6. The figure of the drawings to be publis	shed with the abstract is Figure No.	1					
as suggested by the applic	ant.	None of the figures.					
X because the applicant faile	d to suggest a figure.	. —					
because this figure better of	characterizes the invention.	, , , , , , , , , , , , , , , , , , ,					

International application No.

INTERNATIONAL SEARCH REPORT

CT/IB 03/06317

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

In a gear unit for use in wind turbines and of the kind comprising a planetary gear stage, and an integrated main rotor bearing (4) adapted to provide location

for the rotor hub (2) relative to the wind turbine nacelle (1) and to locate the planet carrier (3) relative to a low speed ring gear (13), the forces due to bending moments acting between the rotor hub and the nacelle are transmitted substantially directly from the rotor hub (2) to the nacelle (1) via the main bearing (4) and substantially none of said bending moments are transmitted to the nacelle via the ring gear (13) of the planetary gear stage.

PCT/IB 03/06317

A. CLASSIFICATION OF SUBJECT IPC 7 F03D11/02

F03D11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F03D F16H F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
. X	WO 02/14690 A (HANSEN TRANSMISSIONS INTERNAT; BOGAERT ROGER (BE); FLAMANG PETER () 21 February 2002 (2002-02-21) abstract page 7, paragraph 3 claims 17,18,20,21 figures	1-9	
X	WO 01/57415 A (HANSEN TRANSMISSIONS INTERNAT ;FLAMANG PETER (BE)) 9 August 2001 (2001-08-09) abstract	1-3,10	
Y	page 2; figures 3A,3B -/	14,15	
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Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 29 April 2004	Date of mailing of the international search report $12/05/2004$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Daieff, B

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INTERNATIONAL SEARCH REPORT

International Application No PCT/IB 03/06317

C (Continu	ation) DOCUMENTS C	101/18 03	7 00317
Category °			Relevant to claim No.
X	WO 02/079644 A (CHRISTENSEN MOGENS ; VESTAS WIND SYSTEMS AS (DK)) 10 October 2002 (2002-10-10) abstract page 2, line 25 -page 3, line 3 figures 1-3		1,2,4-6, 13
Ρ, χ	WO 03/031811 A (HANSEN TRANSMISSIONS INTERNAT ;FLAMANG PETER (BE)) 17 April 2003 (2003-04-17) the whole document		1,2,11, 13
(US 3 338 584 A (SHUNJI YAGI ET AL) 29 August 1967 (1967-08-29) column 1, line 9-25; figure 2		14,15
4	WO 96/11338 A (HEHENBERGER GERALD) 18 April 1996 (1996-04-18) abstract page 5, line 4-15; figure 6		1-10,14
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/IB 03/06317

							
	ent document n search report		Publication date		Patent family member(s)		Publication date
WO C	0214690	A	21-02-2002	AU CN EP WO JP US	7659301 1447880 1311759 0214690 2004506845 2004038770	T A1 A1 T	25-02-2002 08-10-2003 21-05-2003 21-02-2002 04-03-2004 26-02-2004
WO O)157415	Α	09-08-2001	AU EP GB WO	3589301 1252456 2385644 0157415	A2 A	14-08-2001 30-10-2002 27-08-2003 09-08-2001
WO O	2079644	A	10-10-2002	DK CA WO EP	200100545 2442028 02079644 1373720	A1 A1	03-06-2002 10-10-2002 10-10-2002 02-01-2004
WO O	3031811	A	17-04-2003	GB WO	2381047 03031811		23-04-2003 17-04-2003
US 3	338584	Α	29-08-1967	NONE			
WO 90	611338	А	18-04-1996	AT WO AT AU DE EP ES AT	209753 3597095 59509888	A1 T A D1 A1 T3	26-01-1998 18-04-1996 15-12-2001 02-05-1996 10-01-2002 03-09-1997 01-05-2002 15-05-1997